

MITROFANOV, Yu.M., inzh.

Flow-line equipment for making reinforced concrete span structures.
Transp. stroi. 10 no.10:22-25 O '60. (MIRA 13:10)
(Girders) (Bridges, Concrete)

ARSHAVSKIY, I.E.; MITROFANOV, Yu.M.; RVACHEV, I.F.

Construction of the Krasnaya Presnya Viaduct in Moscow.
Transp.stroi. 10 no.7:17-21 J1 '60. (MIRA 13:7)

1. Glavnyy inzhener proyekta Giprotransmosta (for Arshavskiy).
 2. Nachal'nik tekhnicheskogo otdela Mostotresta (for Mitrofanov).
 3. Nachal'nik mostopoyezda No.421 ordena Lenina Mostotresta (for Rvachev).
- (Moscow---Viaducts)

BORMOTOV, V., inzh.; MITROFANOV, Yu., inzh.

Device invented by smith P. Loyushkov. Sel'. stroi. 12 no.3:19-20
Mr '58. (MIRA 11:3)

(Blacksmithing)

MITROFANOV, Yu.M., inzhener.

Experience of ice on structures. Transp.stroi. 6 no.11:14-16 N *56.
(MLRA 10:1)

(Kyubyshev--Bridge construction)

MITROPANOV, Yu.A.; ZHILIN, V.A.

Automatic device for measuring cellophane moisture. Khim.
volok. no.3:41-42 '63. (MIRA 16:7)

1. Mogilevskiy zavod.
(Cellophane) (Moisture--Measurement)

PLATONOV, P., doktor tekhn.nauk; MITROFANOV, Yu., inzh.

Problems in the automatic control of grain drying systems. Mik.-elev.
prom. 28 no.11:13-16 N '62. (MIRA 16:2)

1. Odesskiy tekhnologicheskii institut im. Lomonosova.
(Grain-drying) (Automatic control)

L 9447-66

ACC NO. AP6001239

9

cial silicones KR-0 and KR-1, 99.0 and 98.0% pure, respectively, were used as initial materials for siliciding cells. The growth rate, structure and phase composition of the coatings obtained were studied by gravimetric, metallographic and x-ray methods. The effect of Al, Fe, Cu, Ti and B used as additives, and of the residual gas pressure was studied. It was found that the presence of small amounts of Al (1-3%) in powdered silicon causes the formation of a ternary compound $Mo(Si, Al)_2$ with a hexagonal structure, the growth of which is expressed as a linear dependence on time. The presence of the other additives studied, with the exception of Ti, results in a decrease in the growth rate of the $MoSi_2$ layer and does not affect its structure. The residual gas pressure does not affect the silicide layer growth, if it is within 1.10^{-6} — 1.10^{-4} mm Hg; at 1.10^{-3} mm Hg, the rate slows down 3-4 times; at 1.10^{-2} mm Hg, disilicide is not formed at all, and only the Mo_3Si phase is formed. Transition of the dark and opaque hexagonal disilicide into the silvery tetragonal form on prolonged heating was observed. Orig. art. has: 4 figures and 3 tables. [18]

SUB CODE: 07, 11/ SUBM DATE: 10Apr65/ ORIG REF: 007/ OTR REF: 006/ ATD PRESS:

4156

Card 2/210

1 947-66 EWP(e)/EWT(m)/ETC/EPF(n)-2/EPG(m)/EWP(t)/EWP(k)/EWP(x)/EWP(b) LJP(c) /
ACC NR. AP6001239 JD/JG/WB SOURCE CODE: UR/0363/65/001/012/2212/2218

AUTHOR: Ivanov, V. Ye.;^{44.55} Nechiporenko, Ye. P.;^{44.55} Krivoruchko, V. M.; Verkhorobin, L. F.;
Mitrofanov, A. S.;^{44.55} Poltavtsev, N. S.^{44.55}

ORG: Physicotechnical Institute, Academy of Sciences UkrSSR, Kharkov (Fiziko-tekhnicheskii institut Akademii nauk UkrSSR)^{44.55}

TITLE: Effect of additives on the kinetics of the siliciding of molybdenum in vacuum¹⁶ ²⁷ ^B

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 12, 1965, 2212-2218

TOPIC TAGS: refractory metal,^{2,44.55} refractory coating, molybdenum, silicon, molybdenum disilicide, oxidation resistance

ABSTRACT: Inasmuch as the coating of refractory metals with molybdenum disilicide is known as a prospective method for preventing high-temperature oxidation, the effect of some additives on the growth rate and the structure of the silicide layer on molybdenum was studied. It was noted that properties of the disilicide coating (including brittleness and an inadequate thermal stability) may depend on the preparative method and on the purity of the initial materials. In this study the silicide layer was produced on molybdenum sheet and wire 0.1 and 0.5 mm thick, respectively, in vacuum by heating at 1250C. Molybdenum of 99.95% purity, 99.999%-pure silicon and commer-

Card 1/2

UDC: 546.281

2

MITROFANOV, Yevgeniy Nikolayevich, kand. tekhn. nauk; KUTUZOV,
N.V., red.

[Mesh reinforcement in structural elements; verbatim report delivered December 26, 1962 as part of the course "New developments in construction"] Rabota armirovaniya v konstruktsiyakh; stenogramma lektsii, pročitannoi 26 dekabria 1962 goda po tsiklu "Novoe v stroitel'stve." Leningrad. Pt.1. 1964. 32 p. (HIA 17:7)

L 15805-66

ACC NR: AP5024158

in vitro than *in vivo*, a phenomenon that accounts for the increase in mutation rate.
Orig. art. has: 3 figures, 2 tables.

SUB CODE: 06/ SUBM DATE: 25Jan65/ ORIG REF: 003/ OTH REF: 006

Card 2/2 S/P

L 15805-66 EWT(m)

ACC NR: AP8024158

SOURCE CODE: UR/0216/65/000/005/0783/0787

AUTHOR: Nitrofanov, Yu. A.

ORG: Institute of Biophysics, AN SSSR (Institut biologicheskoy fiziki AN SSSR) ²³_B

TITLE: Effect of culture density on the frequency of chromosome aberrations in normal and x-irradiated (35 r) mouse fibroblasts

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 5, 1965, 783-787

TOPIC TAGS: animal genetics, irradiation damage, chromosome aberration, mitosis

ABSTRACT: It was discovered that an increase in the density of a normal, nonirradiated mouse fibroblast culture (C₃Hfpull) from 6 to 20 cells/750 μ^2 reduced the number of chromosome aberrations. An increase in density above 20 cells/750 μ^2 had no significant effect on the number of abnormal cells in the culture. Dense cultures had fewer cells injured by x-irradiation than sparse cultures. Density apparently exerts a protective influence. Cells grown in dense cultures developed mitosis sooner than cells of sparse culture, in a manner similar to embryonal tissue cells grown *in vivo*. Mouse embryo fibroblasts are more vulnerable when grown in

Card 1/2

UDC: 537.531 : 591.813

KRAYNES, L.Ya., inzh.; MALYSHEV, V.P., inzh.; MITROFANOV, Ye.N., kand. tekhn.

New methods for combined assembling of prestressed reinforced
concrete construction elements. *Biul. tekhn. inform. po stroi.*
5 no.5:14-17 My '59. (MIRA 12:8)
(Precast concrete construction)

MITROVANOVA, Ye. N.

"Sheet Cast Iron as a Construction Material and the Possibility of Using It in Portable Constructions." *Chemical Technol. and Construction Engineering Inst, Leningrad, 1954.* (RZhKhim, No 6, 1955)

S0: Sum. No: 670, 29 Ser 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

ALEKTOROV, Vladimir Aleksandrovich [Alektorov, V.O.]; IVANOVA, Mariya Petrovna; MITROFANOV, Yevgeniy Mitrofanovich [Mytrofanov, IE.M.]; NAUMOV, Andrey Petrovich; YURCHENKO, Nikolay Povich [Iurchenko, M.Kh.]; KOVAL'CHUK, O., red.; GUSAROV, K. [Husarov, K.],
tekh.red.

[Electric engineering problems and calculations] Zadachi ta
rozrakhunky z elektrotekhniky. Kyiv, Derzh.vyd-vo tekhn.lit-ry
URSR, 1960. 254 p. (MIRA 14:3)
(Electric engineering--Problems, exercises, etc.)

MITROFANOV, Ye.I.

Metastasis of stomach cancer into the liver diagnosed by
splenoportography. Vestn. rentgen. i radiol. 38 no.4:73-75
Jl-Ag'63 (MIRA 17:2)

1. Iz hospital'noy khirurgicheskoy kliniki imeni prof. V.M.
Bogoslavskogo (zav. - prof. R.V.Bogoslavskiy) na baze
tsentral'noy klinicheskoy bol'nitsy (glavnyy vrach V.D.
Bayda) Donetskogo meditsinskogo instituta imeni A.M.
Gor'kogo.

BOGOSLAVSKIY, R.V., prof. (Donbass, Donetsk, ul. Artema, d.119, kv.5);
MITROFANOV, Ye.I.

Splenoportography in the diagnosis of thrombophlebitic splenomegaly.
Vest.khir. 89 no.11:25-30 N '62. (MIRA 16:2)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. R.V. Bogoslavskiy) Donetskogo meditsinskogo instituta (rektor - dotsent A.M. Ganichkin).

(SPLEEN---HYPERTHROPY AND DILATATION)
(PORTAL VEIN---RADIOGRAPHY) (SPLEEN---RADIOGRAPHY)

BOGOSLAVSKIY, R.V., prof.(Donetsk, ul.Artema,d.119,kv.5); MITROFANOV,
Ye.I., assistant

Splenoportography and its diagnostic significance. Klin.khir.
no.7:9-15 J1 '62. (MIRA 15:9)

1. Kafedra gospital'noy khirurgii imeni prof. V.M.Bogoslavskogo
(zav. - prof. R.V.Bogoslavskiy) Donetskogo meditsinskogo instituta.
(SPLEEN--RADIOGRAPHY) (PORTAL VEIN--RADIOGRAPHY)

MITROFANOV, V.Z.; MAKAROV, A.A.

Mass spectrometric determination of helium and argon in natural
gases. Zhur. anal. khim. 19 no.11:1372-1376 '64. (MIRA 12:2)

1. Scientific-Research Institute of Oil and Gas Industry, Volgo-
grad.

MOKIYENKO, V.F.; MITROFANOV, V.Z.

Distribution of microelements in the Permian sediments of Volgograd Province. Dokl. AN SSSR 149 no.2:420-423 Mr '63. (MIRA 16:3)

1. Nauchno-issledovatel'skiy institut neftyanoy i gazovoy promyshlennosti, Volgograd. Predstavleno akademikom N.M. Strakhovym.

(Volgograd Province--Trace elements)
(Volgograd Province--Geology, Stratigraphic)

METROFANOV, V.Z.

Age of underground (formation) waters in the Volg. Valley portion
of Volgograd Province. Geokhimiia no.5:624-637 My '65. (ISSN 1802)

1. Nauchno-issledovatel'skiy institut neftyanykh i gazovoy promyshlennosti, Volgograd.

MITROFANOV, V.V.; PAVLOVA, V.A.; PAYSHTCHEN, M.I.

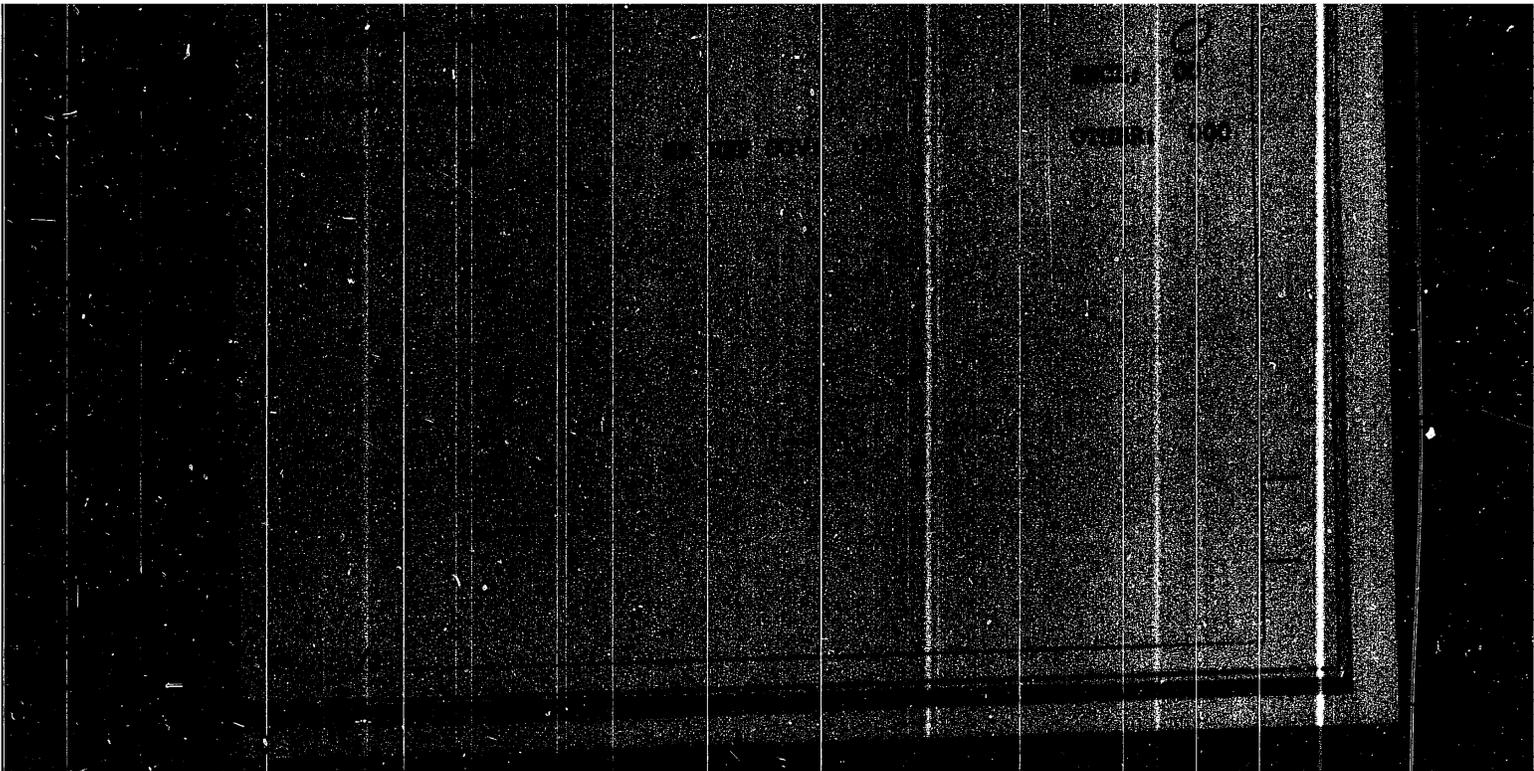
Physicochemical analysis of the mechanism of the amplifying
action of bis-(1-phenyl tetrazolyl-5)-disulfide. Zhur. Vsesoyuzn.
kriki. tot. i khim. 10 no.4:273-276 10-Ag 166. (MIR 1977)

1. Leningradskiy Institut Khimicheskoy

KURNOSOV, Anatoliy Ivanovich; YUDIN, Vladimir Vasil'yevich;
ALFEROV, Zh.I., kand. tekhn. nauk, retsenzent;
~~MITROFANOV, K.V.~~, inzh., retsenzent; PASYNKOV, V.V.,
prof., doktor tekhn. nauk, nauchn. red.; CHEFAS, M.A.,
red.; KVOCHKINA, G.P., red.

[Technology of the manufacture of semiconductor devices]
Tekhnologiya proizvodstva poluprovodnikovyykh priborov.
Leningrad, Sudostroenie, 1965. 247 p. (MIRA 18:8)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001134700015-6



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L 18109-63
ACCESSION NR: AP3004107

seed crystal to be covered with simple cubic and octahedral forms. The rate of growth in the $[111]$ direction proved to be 2.5 times that along $[001]$, being approximately $10\mu/\text{hr}$ in the first direction, $4\mu/\text{hr}$ in the second. This rate depends on amount of I in the tube, orientation of the seed crystal, surface area of the Ge source, temperature of the zone, position in the tube, appearance of parasitic crystals, and some other factors, but the relative importance of these was not studied. Orig. art. has: 5 figures.

ASSOCIATION: none

SUBMITTED: 13Aug62

DATE ACQ: 15Aug63

ENCL: 00

SUB CODE: PH

NO REF SOV: 000

OTHER: 002

Card 2/2

L 18109-63

ACCESSION NR: AP3004107

ENP(q)/EWT(m)/BDS

AFTIC/ASD JD

S/0070/63/008/004/0684/0686

58

AUTHORS: Andriashin, V. K.; Boytsov, Yu. P.; Baltushkina, N. V.; Mitrofanov, V.V.

TITLE: Growth of fine layers of Ge on Ge seed crystals by the "closed-tube" method (p-type Ge)

SOURCE: Kristallografiya, v. 8, no. 4, 1963, 684-686

TOPIC TAGS: seed crystal, closed tube, Ge, specific resistance, I, cube, octahedron, parasitic crystal

ABSTRACT: The authors used the closed-tube method described by J. Marinace (Illinois Biol. Monogr. J., 7, 248-255, 1960) to obtain "epitaxial films" of Ge. The seed crystals were plates of p-type Ge with specific resistance of 0.001 ohm/cm. They were about 500 μ thick and 10-20 mm in diameter and were cut parallel to the (111) and (001) faces. Before being placed in the tube, they were etched in SR-4, washed in distilled water, and dried. The tube was filled with iodine. After growth of the Ge, the seed crystal with its layer of Ge was examined morphologically, after which a thin section was made, and a plate cut for measurements of electrical-physical properties. The studies showed the

Card 1/2

EXPRESSION NO: AP302883

obtained. All of the oscillograms in the tests described in the article were repeated many times. Therefore, the flow scheme in the spinning wave given by the authors listed in the bibliography can be considered definitely confirmed. The authors are grateful to S. V. Vytsekhovskiy for his attention to this work.
Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 01Feb63

DATE ACQ: 16M163

ENCL: 00

SUB CODE: PH, FL

NO REF SOV: 008

OTHER: 000

3/2

Classification	Author	Title	Source	Topic
SECRET	AP3002504		8/0207/63/000/003/0045/004	
	Mitrofanov, V. V.; Babitskiy, Ya. A.; Furchik, N. E. (Novosibirsk)	Measurement of pressure in a spinning transverse wave		
			Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1963, 45-48	
				detonation, gas dynamics, pressure, experiment
<p>ABSTRACT: As is known, detonation mixtures near the ends of ducts go into a spin mechanism. At the front a transverse wave is formed which turns in a neighborhood along the wall of the duct. Computations show that (in the transverse wave) the maximal pressure is 170-180 times greater than the initial pressure of the mixture, i.e., 10 times greater than at the Chapman-Zhugre point for detonation waves on the whole. V. V. Mitrofanov (Struktura detonatsionnoy volny* v plozkoizogibnykh trubakh. PMF, 1962, No. 4) gave results of measuring the field of pressure in a spinning wave (using small piezo-transmitters) which agreed well with the computational measurements. However, because of the lack of care of the transmitters in absolute value of the pressures and the extreme pressure of the oscillograms along the time axis, these measurements could not be considered sufficiently reliable. The authors repeated the tests more carefully and state the results:</p>				
Cont 1/2				

Structure of the front in gas detonations (Struktura fronta detonatsiy gazakh),
Novosibirsk, Izd-vo Sib. otd. AN SSSR, 1963, 167 p. illus., biblio. Errata
slip inserted. 1,500 copies printed. (At head of title: Akademiya nauk SSSR.
Sibirskoye otdeleniye. Institut gidrodinamiki).

TOPIC TAGS: physics, gas detonation, gas detonation front

TABLE OF CONTENTS [abridged]:

Introduction -- 5
Ch. I. A single theory of gas detonation -- 10
Ch. II. Spin detonation -- 34
Ch. III. Multi-front detonation -- 81
Ch. IV. Stationary detonation -- 136
Ch. V. Some general characteristics of detonation with transverse waves -- 149

SUB CODE: ME
OTHER: 073

SUBMITTED: 19Sep63
DATE ACQ: 21May64

NR REF SOV: 068

Card: 1/1

MITROFANOV, V.V. (Novosibirsk)

Structure of a detonation wave in a plane channel. PMTF no.4:
100-105 J1-Ag '62. (MIRA 16:1)
(Detonation) (Shock waves)

11 8100

39224
S/207/62/000,003,005,016
1028/1228

AUTHOR: Voytzezhovskiy, B. V., Mitrofanov, V. V. and Topchiyan, M. Ye. (Novosibirsk)

TITLE: On the flow structure in a spinning-detonation wave

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1962, 27-30

TEXT: Experiments on the detection of the leading front of a detonation wave on a Töpler installation were designed in order to ascertain experimentally which of the patterns of flow in the region of the front fracture proposed by Voytzezhovskiy (according to which the compression of the main mass of gas occurs behind the shock front in the transversal detonation wave) and Denisov-Troshin (according to which the most luminous region represents the "fracture" of the leading front of the detonation wave) is correct. A photographic record of the detonation was taken by the method of total compensation through a slit in the detonation tube, and a diagram of the disposition of the fronts drawn on the basis of comparison of the Töpler and self-luminosity photographs of the detonation. This established the existence of a shock wave, in which the preliminary compression of the gas taken place, before the zone of maximum luminosity. The experimental results obtained agree with the theoretical pattern of flow proposed by Voytzezhovskiy. The authors thank L. V. Ovsyannikov and R. I. Soloukhin for their comments. There are 3 figures and 1 table. The most important English-language reference reads as follows: R. E. Duff "Investigation of Spinning Detonation and Detonation Stability", The Physics of Fluids, 1961, no. 11, p. 1427.

SUBMITTED: January 26, 1962

Card 1/1

AGLINTSEV, K.K.; MITROFANOV, V.V.; RIMSKIY-KORSAKOV, A.A.;
SMIRNOV, V.V.

Investigation of the angular distribution of photoelectrons
knocked out of Ag and Bi targets by gamma rays from Cs 137.
Izv. AN SSSR. Ser. fiz. 26 no.9:1141-1145 '61.

(MIRA 14:8)

(Electrons--Spectra)

(Gamma rays)

69069

S/120/60/000/01/004/051
E032/E314
The Construction of a Magnetic Spectrometer for Studying Angular
Distribution of Electrons

There are 3 figures, 1 table and 4 Soviet references.

ASSOCIATION: Radiyevyy institut AN SSSR (Radium Institute of
the Ac.Sc., USSR)

SUBMITTED: January 14, 1959

✓

Card 4/4

69069

S/120/60/000/01/004/051

EO32/E314

The Construction of a Magnetic Spectrometer for Studying Angular Distribution of Electrons

The chamber is so constructed that the electron spectra can be obtained in steps of 15° between 0° and 180° . The overall dimensions of the spectrometer are

$410 \times 370 \times 110 \text{ mm}^3$. The counters were cylindrical (12 mm diameter, working length 35 mm) and were filled with a mixture of argon and methane (60% and 40%, respectively, at a total pressure of 10 cm Hg). Resolution of the coincidence circuit was 10^{-6} sec. Figure 2 shows the spectra of electrons ejected by

Cs^{137} gamma-rays from cadmium. The vertical axis gives the number of pulses in arbitrary units and the horizontal axis the electron energy in KeV. Figure 3 gives the spectra emitted by Co^{60} gamma-rays from the same target. Acknowledgment is made to K.K. Aglintsey who directed this work.

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Card3/4

69069

S/120/60/000/01/004/051

E032/E314

The Construction of a Magnetic Spectrometer for Studying Angular Distribution of Electrons

angular distributions of secondary electrons ejected by Cs^{137} and Co^{60} gamma-rays from thick targets of different atomic number. Moreover, a study was made of the electron spectra of W^{185} , Y^{91} and P^{32} scattered in backward directions at various angles to the targets. Figure 1 gives a schematic drawing of the apparatus employed. In Figure 1, 1 is the target; 2 is the body of the spectrometer; 3 is a collimator; 4 is the gamma-ray source; 5 is the counter-holder; 6 is the counter chamber; 7 is a slit-carrying frame; 8 is the moveable jaw of the exit slit; 9 and 10 is the device for adjusting the slit width; 11 is a diaphragm; 12 is a screening block; 13 is the lid; 14 is a connection to the vacuum pump; 15 is the electron counter; 16 is the counter chamber; 17 is a pipe used to evacuate the counter chamber; 18 are glass-metal seals; 19 is the entrance slit; 20 and 21 is a device for rotating the target; 22 is a window for changing the targets.

Card2/4

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69069

S/120/60/000/01/004/051

E032/E314

21.5300

AUTHORS: Mitrofanov, V.V. and Smirnov, V.V.

TITLE: The Construction of a Magnetic Spectrometer for Studying
Angular Distribution of Electrons

PERIODICAL: Pribery i tekhnika eksperimenta, 1960, Nr 1,
pp 22 - 24 (USSR)

ABSTRACT: The spectrometer has been designed for use in studies involving energy spectra and angular distributions of electrons having energies between 0.02 and a few MeV. The angular interval is 0 - 180°. The spectrometer is based on the design reported by Dzhelepov et al (Ref 1). Electrons of given energy emitted in a direction perpendicular to the source are doubly focused by a uniform magnetic field and are recorded by two counters in coincidence. By varying the magnetic field and noting the number of coincidences, it is possible to obtain the energy spectrum of the electrons emitted by the source in the forward direction. By rotating the source of electrons through an angle about the vertical axis, it is possible to analyse those electrons which correspond to the rotation angle. The authors have studied the energy spectra and

Card1/4

4

AGLINTSEV, K.K.; MITROFANOV, V.V.; SMIRNOV, V.V.

Active electron spectra in air-equivalent ionization chambers. Trudy
Radiov.inst.AN SSSR 9:253-257 '59. (MIRA 14:6)
(Ionization chambers) (Electrons--Spectra)

MITROFANOV, V.V.

3) PHASE A WORK EXPERIMENTUM 001/0213
International Conference on the Peaceful Uses of Atomic Energy. 2nd,
Geneva, 1958

Publicly accessible workshop; poluchenye i primeneniye izotopov (Reports
of Soviet Scientists) Production and Applications of Isotopes) Moscow,
Atomizdat, 1959. 368 p. (Series: 221; Study, vol. 6) 8,000 copies
printed.

Mitrofanov, V.V., Burdakov, Academician, and I.I. Vavilov, Correspond-
ing Member, USSR Academy of Sciences; Ed. (Inside book): E.B. Anshayenko;
Tech. Ed.: E.B. Anshayenko.

Project: This book is intended for scientists, engineers, technicians, and
laboratory workers engaged in the production and application of atomic energy to
industry, agriculture, medicine, and other fields. It contains the records of
higher technical schools where the subject of atomic energy is taught; and for the
general public interested in atomic science and technology.

NOTE: This is volume 6 of a 6-volume set of reports submitted by Soviet
scientists at the Second International Conference on the Peaceful Uses of
Atomic Energy held in Geneva from September 24 to 31, 1958. Volume 6 con-
tains 32 reports on: 1) modern methods, 2) research results obtained
with the aid of isotopes in the field of chemistry, metallurgy, medicine,
agriculture, and other fields, and 3) biophysics of isotopes. V.I.
Mitrofanov, Candidate of Physical-Mathematical Sciences, Candidate of
Physics, Candidate of Chemical Sciences, and Candidate of Biological
Medical Sciences, and other articles.

- 16. Mitrofanov, A.V., V.I. Karpov, and V.I. Slutsky. Cobalt Sources of
High Intensity for Radiative Action (Report No. 2034) 210
- 17. Casner, H.G., Jr., Ye. Korolov, and V.I. Popov. Gamma Radiation Inside
and Outside Enclosed Sources (Report No. 2038) 211
- 18. Adilov, K.K., M.A. Sa, V. Babayev, Ya.G. Grachov, Z.Y. Yerabov,
and E.A. Petrusheva. System of Radiometric Measurement of Radioactive
Isotopes (Report No. 2047) 227
- 19. Adilov, K.K., V.B. Isachenko, V.V. Kiselevich, and V.V. Shilov. Applica-
tion of Nuclear Spectroscopy Methods to Soil and Gamma-ray Dosimetry
(Report No. 2049) 227
- 20. Narasim, P.S., V.I. Gol'dsmak, and V.S. Rogozov. Instrument for
Measuring Small Streams of High-energy Neutrons (Report No. 2053) 234
- 21. Chubayev, A., V.I. Polikarpov, and V.A. Balashov. Measuring and
Analyzing Air Contamination by Low Concentrations of Aerosol Alpha
Particles (Report No. 2130) 243
- 22. Zolotarev, G.V., K.I. Korotkiy, and O.A. Gumbakova. Work on
Studies by Quantitative Radiometric Methods (Report No. 2135) 250
- 23. Bekitin, Ya.Y., and A.V. Brylov. Studying the Transfer, Distribution
and Transformation of Certain Physiologically Active Compounds in Plants
(Report No. 2137) 274
- 24. Omer, I.I., Ya.Ye. Kravtina, and A.Ye. Petrov-Spiridonov. Rhythm of
Absorption and Secretion in Birds (Report No. 2153) 285
- 25. Anshayenko, A.I., and V.A. Shastakova. Effect of the Physico-chemi-
cal Properties of the Absorption and Secretion of Radioisotopes and Salts by
the Glandular Tissues of Woody Plants (Report No. 2112) 300
- 26. Anshayenko, V.I., and K.D. Potanova. Absorption of Radioisotope Tracers by
Cultivated Plants in Relation to Their Resistance to Salt (Report
No. 2131) 315
- 27. Anshayenko, V.I., S.V. A.V. Vayvodin, V.A. Nokolayev, and A.V. Dorymorich.
Some Methods of Using Radioisotope Tracers for Plant Protection (Report
No. 2099) 322
- 28. Anshayenko, V.I., and V.A. Nokolayev. Some Methods of Gamma-ray
Allays of Zirconium and Titanium Base by the Radioisotope Isotope Method
(Report No. 2056) 329

VOYTSKHOVSKIY, B.V.; KOTOV, B.Ye.; MITROPANOV, V.V.; TOPCHIYAN, M.Ye.

Optical investigation of transverse detonation waves. Izv.Sib.
otd. AN SSSR no.9:44-51 '58. (MIRA 11:11)

1. Sibirskoye otdeleniye AN SSSR.
(Explosions)

SOV/89-5-5-12/27

The Relative Effectiveness of Ionization Chambers Made of Various Materials

was determined as amounting to:

E_7 in keV	Material of the walls of the chamber	Relative effectiveness
1250	plexiglass	$1,0 \pm 0,1$
	Al	$\frac{1,0}{1,1} \pm 0,1$
	Cu	$1,3 \pm 0,2$
	Cd	$1,6 \pm 0,2$
	Pb	$1,6 \pm 0,2$
662	plexiglass	$1,0 \pm 0,1$
	Al	$\frac{1,0}{1,5} \pm 0,2$
	Cu	$1,9 \pm 0,3$
	Cd	$2,7 \pm 0,4$
	Pb	$2,7 \pm 0,4$

The values obtained, with the exception of those for Pb, agree well with the data supplied by reference 2. The effect of the ionization by electrons scattered on the opposite wall of the chamber is taken into account by the above data. There are 3 figures, 2 tables, and 2 references.

21(1)
AUTHORS: Aglintsev, K. K.; ~~Mitrofanov, V. V.~~ Smirnov, V. V. SOV/85-5-5-12/27

TITLE: The Relative Effectiveness of Ionization Chambers Made of Various Materials (Otnositel'naya effektivnost' ionizatsionnykh kamer iz razlichnykh materialov)

PERIODICAL: Atomnaya energiya, 1958, Vol 5, Nr 5, pp 566-568 (USSR)

ABSTRACT: The thimble-ionization chambers were made from plexiglass, aluminum, copper, cadmium, and lead. The angular distribution and the energy spectrum of the secondary electrons were experimentally determined. Secondary electrons are produced by the interaction between the γ -radiation of Cs¹³⁷ (662 keV) and Co⁶⁰ (1170 and 1330 keV) and the various materials of which the walls of the ionization chamber are made. The secondary electrons were measured by means of a 270° magnetic spectrometer (Ref 1). An additional sluable device made it possible to carry out separate measurements of the secondary electrons emitted at angles of 0, 15, 30, 45, 60, 80, 105, 130, 150, 165 and 180°. The relative effectiveness of the thimble-ionization chambers:

Card 1/3

115-5-23/44

.On Approximation of the Ballistic Galvanometer Constant's Dependence upon
the Outer Resistance

The article contains 2 tables and 4 references (3 of which
are Russian).

AVAILABLE: Library of Congress

Card 2/2

MITROFANOV V V

AUTHORS: Preobrazhenskiy, A.A., and Mitrofanov, V.V. 115-5-23/44

TITLE: On Approximation of the Ballistic Galvanometer Constant's Dependence upon the Outer Resistance (Ob aproksimatsii zavisimosti ballisticheskoy postoyannoy gal'vanometra ot vneshnego soprotivleniya)

PERIODICAL: "Izmeritel'naya Tekhnika", No 5, Sep-Oct 1957, pp 51-53 (USSR)

ABSTRACT: An approximation formula is developed by which the ballistic constant of a galvanometer may be calculated from the quantity of electricity within a measurement range with a relative error of less than 2%. The application of the formula is illustrated by a practical example of calculation of measuring coils of limited dimensions for measurements of small magnetic field fluxes. Data obtained in experiments on a ballistic galvanometer (M 21/2) and on coils, performed with the purpose to verify the formula, proved that the formula permits the selection of optimum parameters for a measuring coil. In summary, it is stated that the possibility of a linear approximation of the complex dependencies considered, permits a simple solution of problems which were formerly very difficult to solve or could not be solved at all. The given example, however, is not the only possible way of application.

Card 1/2

PA - 2195

On the real electron spectra in ionization chambers.

may therefore lead to certain inaccuracies. The degree of inaccuracy cannot be estimated by this theory. The authors endeavor to investigate the electron spectra in ionization chambers and counting tubes systematically. These spectra were experimentally investigated by means of a magnetic spectrometer which worked according to the retron principle. The investigation of angular distribution was also discussed in short. The construction of the spectrometer and of the system of collimators permitted an investigation of the electron spectra at angles of 0° , 15° , 30° , 60° , 90° , and 180° . As sources of the γ rays the radioactive isotopes Co^{60} , Cs^{137} , and RaTh were used. Two diagrams illustrate the spectra of the electrons which have been knocked out of the target at angles of 0° , 15° , 30° , and 60° . A further diagram shows analogous curves for a RaTh source in the energy interval of from 1000 to 2600 keV if the electrons are emitted at angles of 0° , 15° , and 30° . A fourth diagram illustrates the amount of ionization caused by the electrons knocked out at different angles.

From the data obtained here the energy spectrum of the electrons as well as the data for the computation of the efficiency of

Card 2/3

MITROPANOV, V.V.

AUTHOR: AGLINCEV, K.K., MITROPANOV, V.V., SMIRNOV, V.V. PA - 2195
 TITLE: On the real electron spectra in ionization chambers. (Russian).
 PERIODICAL: Atomnaia Energiia, 1957, Vol 2, Nr 1, pp 66 - 68.
 Received: 3 / 1957 Reviewed: 3 / 1957

ABSTRACT: The dose measurements in β and γ radiation fields are based on the use of ionization chambers or on some indicators gauged by ionization chambers. In the practical dosimetry of γ rays the "thimble chambers" are especially widely used, in which ionization of the gas is almost exclusively caused by electrons. These electrons are knocked out of the chamber walls during the absorption of γ rays. According to the theory developed by BRAGG and GRAY ionization of the gas in the chamber is connected with the radiation energy absorbed in the walls by the following relation: $Q = \Delta E / s \epsilon$. Here Q denotes the number of ion pairs produced in 1 cm³ of the gas in the chamber, s denotes the ratio (slowing down capacity of the wall material/slowing down capacity of the gas), ϵ ionization work. The relation mentioned here is realized sufficiently in a perfect gas if the following conditions are satisfied: a) the volume occupied by the gas can be regarded as a small cavity in the material of the wall, b) the nuclear charge number of the walls and of the gas differ little from each other, c) the radiation field can be regarded as uniform at all points of the chamber. In practice these conditions are not fully satisfied and the application of the theory of BRAGG-GRAY

Card 1/3

CHERNUKH, A.M.; MITROFANOV, V.S.

Evaluation of the effectiveness of thiamide in experimental tuberculosis. Pat. fiziol. i eksp. terap. 8 no.1:43-46 July 1964. (MIRA 18:2)

1. Otdel khimioterapii (zav.- prof. A.M. Chernukh) Institute farmakologii i khimioterapii (dir.- deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov) AMN SSSR, Moskva.

ZAKUSOV, V.V.; KAVERINA, N.V.; MARKOVA, G.A.; MITROFANOV, V.S.

Effect of pharmacological agents on the development of myocardial lesions caused by biogenic substances. Kardiologiya 4 no.4:3-11 (MIRA 1961)
Jl.Ag ' 64

1. Otdel farmakologii Instituta farmakologii i khimioterapii
AMN SSSR, Moskva.

RUDAKOVA, I.S.; KUMOVA, N.F.; NIKIFOROV, V.S.

Pharmacology of β - β -methylaminoethyl-4-oxo-2-pyrone-3-carboxylate
(acetylaminol). Russ. J. Med. 49 no. 2134-35. May '68. (YRA 35:8)

1. Institut Farmakologii i Terapevtyki (Direktor - akademikov
obshch. AMN SSSR prof. V.S. Lukatskiy) RSI SSSR, Moskva.

SHAROV, N.A.; MITROFANOV, V.S.

Experimental data on the evaluation of a new anesthetic
trimecaine. Eksper. khir. i anest. no.1:80-82'63.
(MIRA 16:10)

1. Iz laboratorii obshchey farmakologii (zav. - prof. G.A.
Ponomarev) Instituta farmakologii i khimioterapii AMN SSSR.
(ANESTHETICS)

BARKALAYA, A. I.; MITROFANOV, V. S. (Leningrad)

Clinical anatomical data on influenzal encephalitis. Klin. med.
40 no.7:57-61 J1 '62. (MIRA 15:7)

1. Iz Instituta farmakologii i khimioterapii AMN SSSR (dir. -
deystvitel'nyy chlen AMN SSSR prof. V. V. Zakusov) i kafedry
patologicheskoy anatomii (nachal'nik - prof. S. S. Vayl') Voyenno-
morskoy meditsinskoy akademii imeni S. M. Kirova.

(INFLUENZA) (ENCEPHALITIS)

MITROFANOV, V.S.

Toxicity of cycloserine. Farm. 1 tokc. 29 no. 9:610-613 9-9 '62
(MIRA 12:1)

1. Institut farmakologii i khimioterapii (direktor - deystvi-
tel'nyy chlen AMN SSSR prof. V.V. Zakusov) AMN SSSR.

MITROFANOV, V.S.

Study of the toxicity of chloracizine. Farm. i toks. 25
no.2:198-202 Mr-Ap '62. (MIRA 15:6)

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy
chlen AMN SSSR prof. V.V. Zakusov) Instituta farmakologii i
khimioterapii AMN SSSR.
(PHENOTHIAZINE--TOXICOLOGY)

MITROFANOV, V.S.

Evaluation of the effect of thianide on the organism. *Farma.i*
toks. 24 no.2:207-209 Mr-Ap '61. (MIRA 14:6)

1. Otdel khimioterapii (zav. - prof. A.M.Chernukh) Instituta
farmakologii i khimioterapii AMN SSSR.
(ISONICOTINIC ACID)

KAPLUN, N.A.; NEVSTRUYEVA, V.S.; MITROFANOV, V.S.; OBROSOV, A.N.; PUCHKOV,
N.V.; CHERNUKH, A.M.

Experimental observations on new methods for the administration
of antibiotics of the tetracycline group. Antibiotiki 5 no.6:36-
41 N-D '60. (MIRA 14:3)

1. Otdel eksperimental'noy khimioterapii (zav. - prof. A.M.Chernukh)
Instituta farmakologii i khimioterapii i otdel fizioterapii (zav. -
prof. N.A.Vinogradov) Instituta kardiologii i fizioterapii Ministerstva
zdravookhraneniya SSSR.
(TETRACYCLINE)

MITROFANOV, V.S.; RAZUMOVA, I.L.

Morphological analysis of the effect of cycloserine on experimental tuberculosis in white mice. Antibiotiki 5 no. 1:70-73 Mr-Apr '60. (MIRA 14:5)

1. Otdel eksperimental'noy khimioterapii (zav. - prof. A.M.Chernukh)
Instituta farmakologii i khimioterapii ~~AMN~~ SSSR.
(TUBERCULOSIS) (ISOXAZOLIDINONE)

KIVMAN, G.Ya.; CHUMACHENKO, N.V.; SMOL'NIKOVA, N.M.; MITROFANOV, V.S.;
RUKHADZE, E.Z.

Hypersensitivity of rabbits to tetracyclines. *Biul. eksp. biol. i med.* 48 no.10:52-56 O '59. (MIRA 13:2)

1. Iz otdela khimioterapii (zav. - doktor med.nauk A.M. Chernukh)
Instituta farmakologii i khimioterapii (dir. - deystvitel'nyy chlen
AMN SSSR V.V. Zakusov) AMN SSSR, Moskva. Predstavlena deystvitel'-
nym chlenom AMN SSSR V.V. Zakusovym.
(TETRACYCLINE pharmacol.)

KIVMAN, G.Ya.; SMOL'NIKOVA, N.M.; IVANOVA, G.A.; MITROFANOV, V.S.

Pharmacology of a new antibiotic cycloserine. *Farm. i toks.* 22 no.3:
243-246 My-Je '59. (MIRA 12:7)

1. Otdel eksperimental'noy khimioterapii (zav. - doktor meditsinskikh
nauk A.M. Chernukh) Instituta farmakologii i khimioterapii AMN SSSR.

(ANTIBIOTICS,
cycloserine, pharmacol. (Rus))

MITROFANOV, V.S.

Nervous system changes in *Salmonella typhosa* intoxication in rabbits treated with diazoline and cortisone. *Farm. i toks.* 22 no.3:205-206 My-Je '59 (MIRA 12:7)

1. Otdel khimioterapii (zav. - chlen-korrespondent AMN SSSR prof. Kh.Kh. Planel'yes) Instituta farmakologii i khimioterapii AMN SSSR.

(ANTIHISTAMINICS, eff.

diazoline on brain pathol. after admin of *Salmonella typhosa* toxin in rabbits (Rus))

(CORTISONE, eff.

on brain pathol. after admin. of *Salmonella typhosa* toxin in rabbits (Rus))

(BRAIN, pathol.

Salmonella typhosa toxin-induced lesions, eff. of cortisone & diazoline (Rus))

(SALMONELLA TYPHOSA,

toxin, causing brain lesions in rabbits, eff. of cortisone & diazoline (Rus))

USSR/Pharmacology. Toxicology. Chemotherapeutic Preparations. Anti-Tuberculous Remedies. V

Abs Jour: Ref. Zhur. - Biol., No 22, 1958, 102925

freshly-isolated strains of the human type, resistant to the above-mentioned antituberculous preparations. In treatment of experimental tuberculosis of guinea pigs, I is ineffective. I in a dose of 30 mg (per guinea pig weighing 100-150 g) in the course of 100 days did not induce toxic manifestations in the animals.

Card 2/2

USSR/Pharmacology. Toxicology. Chemotherapeutic Preparations. Anti-Tuberculous Remedies. V

Abs Jour: Ref. Zhur. - Biol., No 22, 1958, 102925

Author : Breger, M.A.; Stukalova, B.Ya.; Mitrofanov, V.S.

Inst : -

Title : A Study of the Bacteriostatic and Chemotherapeutic Action of the New Preparation Cycloserine.

Orig Pub: Byul. eksperim. biol. i med., 1958, 45, No. 3, 77-80

Abstract: The new chemotherapeutic preparation d,l-cycloserine (I) was tested in experiments in vitro and in vivo. I is active in respect to grampositive and gramnegative bacteria; among them the paratyphoid group of bacteria and various types of dysentery bacteria. On tuberculosis bacteria, I acts more weakly than phthivazide, PAS and streptomycin. I is active in respect to

Card 1/2

Dept. Exptl. Chemotherapy - Inst. Pharmacology & Chemotherapy AMS USSR

MITROFANOV, V.S.

Condition of the hypothalamus following administration of
antihistamines; histological studies. Farm. i toks. 21 no.5:90
S-O '58 (MIRA 11:11)

1. Otdel khimioterapii (zav. - chlen-korrespondent AMN SSSR
prof. Kh.Kh. Planel'yes) Instituta farmakologii i khimioterapii
AMN SSSR.

(ANTIHISTAMINES, eff.

on hypothalamus, histol. aspect. (Rus))

(HYPOTHALAMUS, eff. of drugs on,

antihistaminics, histol aspects (Rus))

USSR/Human and Animal Morphology - (Normal and Pathological)
Nervous System. Peripheral Nervous System.

S

Abs Jour : Ref Zhur Biol., No 6, 1959, 26112

new formation of processes were observed. The named changes are a reaction of nerve tissue to changed conditions in connection with the development of pathological process.

Card 2/2

- 21 -

USSR/Human and Animal Morphology - (Normal and Pathological) S
Nervous System. Peripheral Nervous System

Abs Jour : Ref Zhur Biol., No 6, 1959, 26112

Author : Mitrofanov, V.S.

Inst : -
Title : Compensatory Changes of Neurones of Nodose Ganglia in Hypertension.

Orig Pub : Arkhiv patologii, 1958, 20, No 5, 38-39

Abstract : Nodose ganglia of vagal nerves were studied histologically on 15 cadavers of humans who suffered from hypertension. Aside from dystrophic changes of nerve cells and conductors, structural changes of compensatory-adaptive character evidencing the processes of restoration in peripheral nervous system were discovered. Amitotic division of nucleus of nerve cells with formation of binuclear neurons, division of nerve cells, formation of neurosymplasts, "colonies" of neurons, proliferation and

Card 1/2

*Ches. Pathological Anatomy, I Moscow Med Inst.
in Sichenov.*

EXCERPTA MEDICA Sec 18 Vol 3/6 Cardiovascular June 59

1544. Changes of the peripheral nervous system in experimentally induced renal hypertension (Russian text) MITROFANOV V. S. *Arkh. Patol.* 1958, 20/2 (21-26) Tables 1 Illus. 4

These studies were carried out in 2 dogs in which hypertension was provoked by wrapping the kidneys in cellophane. The following organs were examined: ganglion nodosum, vagus sympathicus, depressor nerve, glomus caroticum, intramural ganglia of the heart, aorta, medulla oblongata, and internal organs. The various ganglion cells showed swelling and chromatolysis, which could be regarded as reversible; necrosis was only seldom observed. In the nerves of the carotid body, the aorta and the vagus sympathicus, swellings and varicosities could be seen, and also, but much less often, a granular fragmentation; the latter phenomenon also affected the depressor nerve. These alterations in artificially induced hypertension are the same as those observed in hypertonic disease in human patients.

Brandt - Berlin (V, 18)

MITROFANOV, V.S., kand.med.nauk

Histopathology of nodose ganglia and neural conductors of the
vagus nerves, carotid sinus, carotid gland, and aortic arch
in hypertension. Vrach.delo no.4:369-373 Ap '58 (MIRA 11:6)

1. Kafedra patologicheskoy anatomii (zav. - cheln-korrespondent)
AMN SSSR, prof. A.I. Strukov) Pervego Moskovskogo meditsinskogo
instituta im. I.M. Sechenova.
(NERVOUS SYSTEM)
(HYPERTENSION)

MITROFANOV, V. S.

USSR/Human and Animal Morphology (Normal and Pathological) Nervous System S

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 31172

Author : Mitrofanov V.S.

Inst : Not Given

Title : Morphological Changes in the Nuclei of the Hypothalamic Area During Experimental Pneumococcus Infection.

Orig Pub : Arkhiv patologii, 1957, 19, No 7, 13-19

Abstract : One of the forms of changes of the neurons of the brain during experimental pneumococcus infection of rabbits is their swelling, expressed predominantly in the supraoptic and paraventricular nuclei. These changes are reversible. Hydropic distrophy is also met, while in paraventricular nuclei, nonreversible destructive changes with subsequent neuronophagy of part of the cells. There are often changes of the glia and blood vessels. In the development of the structural changes of the nerve cells of the hypothalamus, bacterial intoxication plays a leading role, as well as hypoxia; in

Card : 1/2

Mitrofanov, V.S.

STRUKOV, A.I.; MITROFANOV, V.S. (Moskva)

Modification of the nerve cells of the medulla oblongata in
hypertension. Arkh. pat. 19 no.1:51-53 '57 (MLEA 10:4)

1. Iz kafedry patologicheskoy anatomii (zav.-chlen-korrespondent
AMN SSSR prof. A.I. Strukov) i Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M. Sechenova.
(HYPERTENSION, pathology,
medulla oblongata)
(MEDULLA OBLONGATA, pathology,
in hypertension)

MITROFANOV, V.S.; KUNOVA, M.F.; SEREBRYAKOV, L.A.

Experimental evaluation of toxic properties of the sodium salt
of γ -hydroxybutyric acid. Farm. i toks. 27 no.4:485-487 JI-Ag
'64. (MIRA 17:11)

1. Institut farmakologii i khimioterapii AMN SSSR i kafedra farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. V.V. Zakasov)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni Pechenova.

MITROFANOV, V. S.

"Pathomorphology of Nodular Ganglia of the Vagus Nerve, the Medulla Oblongata, and the Nerve Conductors of the Aortic Arch, the Carotid Sinus, and Carotid Glomus During Hypertension." Cand Med Sci, First Moscow Order of Lenin Medical Inst, Moscow, 1955. (KI, No 17, Apr 55)

SO: Sum. No 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

NAUMOV, Yu.V.; MITROFANOV, V.P.

Frankfurt Automobile Exhibition of 1963. Avt. prom. 30
no.9:43-44 3 '64. (MIRA 17:10)

MITROPANOV, V.S.

Special drives for rapid shifts of the grinding wheel heads.
Mashinostroitel' no.10:33 '60. (MIRA 13:10)
(Grinding machines--Electric driving)

AUTHOR: Mitrofanov, V.S. SOV/117-58-11-20/36

TITLE: Inverse Centers With a Side Cut (Obratnyye tsentry s bokovym srezom)

PERIODICAL: Mashinostroitel', 1958, Nr 11, pp 24 - 25 (USSR)

ABSTRACT: In the Podol'skiy mekhanicheskiy zavod imeni M.I. Kalinina (Podol'sk Mechanical Plant imeni M.I. Kalinin), inverse centers (Figure 1) are used for grinding cylindrical details. The inner cone of these centers is based on the outer surface (Figure 2), which increases the precision. The inverse center lasts for 150 hours, whereas the usual cone will last only 8 hours. There are 2 diagrams.

1. Grinders---Equipment 2. Grinding wheels---Performance

Card 1/1

BORKOVSKIY, M.A.; VOSTOKOV, A.I.; ZHVIRKO, I.S.; LEPESHKIN, I.P.;
MEL'NIK, M.K.; MITROFANOV, V.P.; RODKEVICH, A.V.; SILIN,
P.I. [deceased]; YAKUBOVSKIY, V.V.; YEREMENKO, B.A.,
retsenzent; MAR'YANCHIK, V.L., retsenzent; MAKSIMOV, A.I.,
retsenzent; PRITYKINA, L.A., red.

[Handbook for the sugar manufacturer] Spravochnik sakhar-
nika. Moskva, Pishchevaya promyshlennost'. Pt.2. 1965.
778 p. (MIRA 18:9)

MITROFANOV, V.P.; SOLOV'YEV, D.T.; MARAMOKHIN, I.I.

Testing the film vacuum apparatus with continuous action.
Sakh. prom. 37 no.5:61-66 My '63. (MIRA 16:6)

1. Moskovskiy tekhnologicheskij institut pishchevoy promyshlennosti (for Mitrofanov).
2. Tsentral'nyy nauchno-issledovatel'skiy institut krakhmalo-patochnoy promyshlennosti (for Solov'yev).
3. Yaroslavskiy krakhmalo-patochnyy kombinat (for Maramokhin).
(Evaporating appliances--Testing)
(Molasses)

MITROFANOV, V.P.

Evaporating sugar solutions. Sakh.prom. 34 no.6:35-38 Je '60.
(MIRA 13:7)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlen-
nosti.

(Sugar manufacture)

MITROFANOV, V.P.

Problems of the automatic control of production processes at the
All-Union Conference on Complete Automatic Control and Mechanization
in the Food Industry. Sakh. prom. 33 no.8:40-41 Ag '59.
(MIRA 12:11)

1. Moskovskiy tekhnologicheskii institut pishchevoy promyshlennosti
(MTIPP).
(Sugar industry--Equipment and supplies--Congresses)
(Automatic control--Congresses)

MITROPANOV, Vladimir Pavlovich; RUDZITSKIY, Aleksandr Abramovich; LOSSIYEVSKIY,
V.L., prof., retsenzent; RAKOVSKIY, M.Ye., dots., retsenzent; KULIK,
M.I., inzh., retsenzent; IVANOV, A.S., inzh., spetsred.; KRUGLOVA,
G.I., red.; DOBUZHINSKAYA, L.V., tekhn. red.

[Automatic control in the manufacture of beet sugar] Avtomatizatsia
sveklosakharnogo proizvodstva. Moskva, Pishchepromizdat, 1958.
299 p. (MIRA 11:9)

(Sugar manufacture)
(Automatic control)

MITROPANOV, N. S.

Scientific conference in the Moscow Technological Institute of the
Food Industry. Sakh. prom. 31 no.6:79 Je '57. (MIRA 10:6)
(Sugar industry)

MITROFANOV, Y.P.

Interuniversity scientific conference on mechanization and automatization
of the processings of food products. Sakh.prom.30 no.6:17-18 Je '56.
(Food industry--Congresses) (MLRA 9:9)

MITROFANOV, V.P.

Valuable addition to literature on the automation of production
(Automatic densimeters." S.F.Skorbinin. Reviewed by V.P.Mitrofanov).
Sakh.prom. 30 no.1:76-77 Ja '56. (MIRA 9:6)
(Sugar industry--Equipment and supplies)(Skorbinin, Sergei Fedorovich)
(Automatic control)

MITROFANOV, V.P.; RUDZITSKIY, A.A.

Automatic control of first carbonation. Sakh.prom.29 no.8:
8-14 '55. (MIRA 9:2)

1.MTIPP
(Sugar industry) (Automatic control)

MITROFANOV, V.P.

Speed up application of continuous-process instruments for the automation of sugar production. Sakh.prom. 29 no.3:12-17 '55.
(MIRA 8:7)

1. Moskovskiy tekhnologicheskii institut pishchevoy promyshlennosti
(Sugar industry--Equipment and supplies)

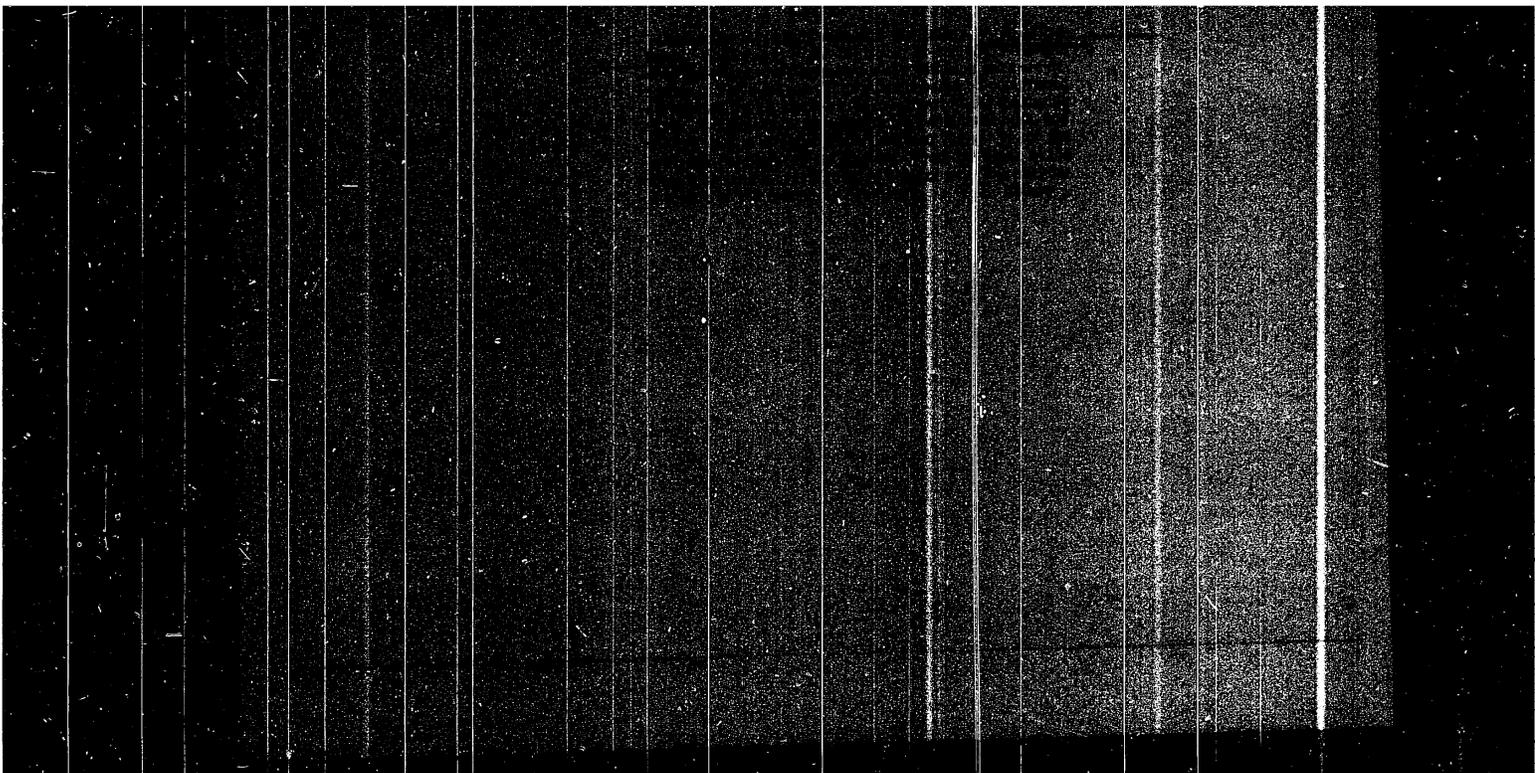
MITROFANOV, V.P.; FILONENKO, S.Ya.

Automatic control of the skip hoist of a lime kiln. Sakh.prom. 29
no.1:9-13 '55. (MLRA 8:4)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti
(for Mitrofanov). 2.Veselo-Podolyanskiy sakharanyy zavod (for Filo-
nanko).

(Hoisting machinery)(Sugar industry--Equipment and supplies)
(Electric controllers)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001134700015-6



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001134700015-6

MITROPANOV, V.P. (Moscow)

Automatization in the sugar industry. Avtom. i telem. 15 no.5:431-444
5-0 '54. (MIRA 8:1)
(Sugar industry)

Abs. - W-31148, 7 Feb 55

MITROFANOV, V.P.

RUBINOV, A.D.; ABADZHI, K.I.; MITROFANOV, V.P., inzhener, retsenzent;
MARINSKIY, F.I., kandidat tekhnicheskikh nauk, redaktor; SOKOLOVA,
L.V., tekhnicheskiy redaktor

[Control and measuring instruments in the shop] Tsekhovoi kontrol'no-
izmeritel'nyi instrument. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1957. 203 p. (MLRA 10:5)
(Measuring instruments)

Method of Machining (Cont.)

567

COVERAGE: On the basis of practical experience at Kirov plant in Leningrad the author presents a method for machining the cylindrical inner surfaces of noncircular stator rings for propeller pumps. Details of tool design are given. The author states that this method of machining is not limited to stator rings only but may also be used for machining other noncircular surfaces. No personalities are mentioned and there are no references.

TABLE OF CONTENTS: [The booklet contains no table of contents but the main subject headings are as follows:]

[General Discussion]	1
Cam Design for Machining on Lathe	15
Cam Design for Grinding of Inner Surfaces	16
Design of Boring Cutter Angles	17
Appendix: Chart of manufacturing operations	23

AVAILABLE: Library of Congress

Card 2/2

GO/ad
8-21-58

MITROFANOV, V.P.

PHASE I BOOK EXPLOITATION

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Mitrofanov, V.P., Engineer

Metod obrabotki nekruglykh tsilindricheskikh otverstiy statornykh kolets k lopastnym nasosam (Method of Machining of the Cylindrical Inner Surfaces of Noncircular Stator Rings for Propeller Pumps) Leningrad, 1955. 19 p. (Series: Leningradskiy dom nauchno-tekhnicheskoy propagandy. Informatsionno-tekhnicheskiy listok, no. 45 /733/) 7,000 copies printed.

Sponsoring Agencies: Leningradskiy dom nauchno-tekhnicheskoy propagandy, and Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy.

Ed.: Posternyak, Ye.F.; Tech. Ed.: Freger, D.P.

PURPOSE: This booklet is one of a series published for plant engineering personnel and students.

Card 1/2

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[Life-giving waters of the Kuban; construction of the
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FREYDLIN, E. M., PEROVA, P. V., IL'YASHENKO, M. A.,⁴, KRASIL'NIKOV, R. I.,
FITINGOF, S. N.,⁵, (1 Junior Scientific Workers), (2 Professors), (3 Director of
the Laboratory of Microbiology and Veterinary Sanitary Inspection of VNIIMF All-
Union Scientific Research Institute of the Meat Industry), (4 Candidates of Veterinary
Sciences.), (5 Senior Scientific Workers.)

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